PP-1 PATCH PANEL

USER MANUAL

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Specifications

Power Supply	AC 230V 50HZ
Protection	MCB Rated at 32 Amps
Power Input Connector	C32 Socket (provided)
Indicators	Live, Neutral, Earth, Sequencer 1 to four
Power Output Connectors	Powercon - NAC3MPB©
Sequencer	Push-on, Push-off switch.
Assignable Matrix	Inputs 8 x Pair Pomona Sockets (Pomona Plugs Provided)
Output	Outputs Speakons 4 x NL4MP 2 x NL8MP
Signal Connectors	Female XLR
Link Connectors	Male XLR
Ethernet Connection	RJ45
USB	2 x USB Sockets
Goose Neck Light	Goose Neck Light on USB Connector
Dimensions H x W x D (mm)	89 x 483 x 455 In Carton 140 x 570 x 610
Weight (Kgs)	Net Weight 9 In Carton 10.8

As part of our continuous R & D programme OHM(UK)LTD reserve the right to change specifications without prior notice E&O.E.

USER MANUAL
PP-1 PATCH PANEL

The information contained within this manual does not include all of the details of design, production or variations of the equipment. Nor does it cover every possible situation that may arise during installation, operation or maintenance. If you need particular assistance beyond the scope of this manual please contact our technical staff.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

WARNING! RISK OF HAZARDOUS ENERGY!

TO REDUCE RISK OF ELECTRIC SHOCK OR FIRE DO NOT EXPOSE TO RAIN OR MOISTURE.

NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

UNIT MUST BE EARTHED AND CORRECTLY FUSED.

The lightning bolt triangle is used to alert the user to the presence of un-insulated "dangerous voltage" within the unit that may constitute a risk of electric shock.

The exclamation mark triangle is used to alert the user to important operating or maintenance instructions in the literature accompanying the product.

CE

CE Conformity

This equipment has been tested and found to conform to the requirements of the EMC Directive 89/336/EEC, the requirements of the Low Voltage Directive 73/23/EEC, amended by 93/68/EEC and to the following standards:

EMC Emission	EN55103-1 (1996)
EMC Immunity	EN55103-2 (1996)
Electrical Safety	EN60065 (1998)

Features

- 8 x Pairs of Inputs on Binding Post
- 2 x Outputs on 8 way Speakon Connector
- 4 x Outputs on 4 way Speakon Connector
- Sequential Start
- Trip Switch
- 4 x Network Connectors
- Inputs and Links on XLR
- 2 x USB Sockets / USB Goose neck light
- Power on C32 Sockets
- Attractive styling

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Introduction

Congratulations on having purchased an OHM PP-1 Patch Panel
Please read this manual and familiarise yourself with the operation of your OHM PP-1 Patch Panel before you attempt to power up this unit. For your own safety we recommend you take the time to read all the warnings and precautions on the page opposite and study the connection details to ensure correct usage and avoid any misuse which may invalidate your warranty.

Record the model and serial number, found on the back of the unit, in the spaces designated on the warranty card and in the space provided below. Refer to the model and serial number whenever you call upon your dealer for information or service on this product.

Model	**Serial Number**

Unpacking

Carefully open the shipping carton and check for any noticeable damage.

Every OHM PP-1 Patch Panel has been rigorously tested and inspected before being carefully packaged, prior to shipping. If any damage has occurred to the packaging or the unit during transit, please notify the delivery company as soon as possible. Only the consignee can file a claim against the carrier for shipping damage. Be sure to save the carton and all packing materials for the carriers inspection.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in future.

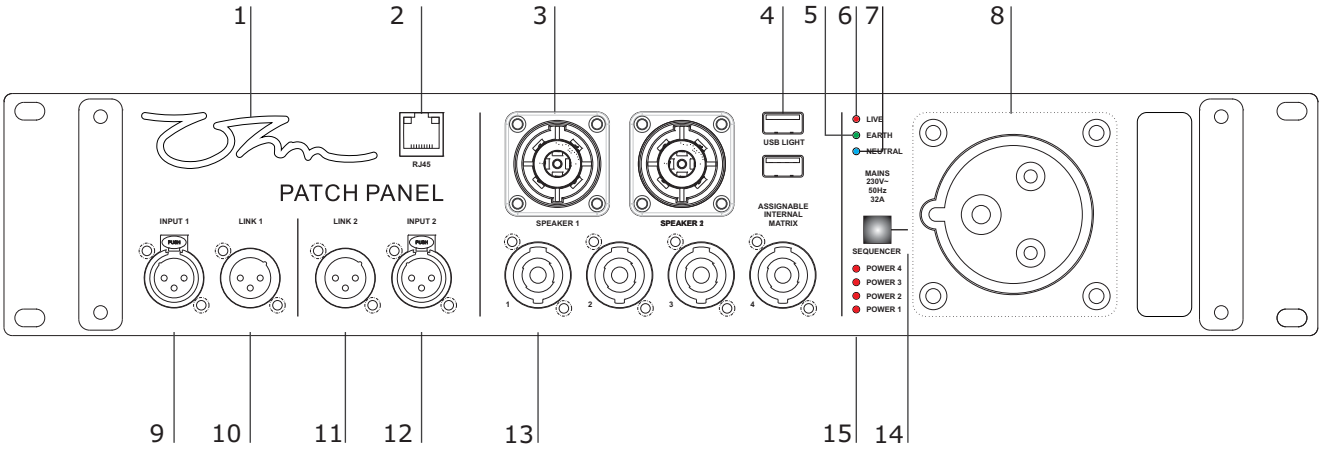
Mounting

Front and rear mountings are fitted to each unit, which conform to standard 19" rack strip specifications. We recommend that you make use of these mountings and install your Patch Panel in a suitable equipment rack, such as a UC-Series Flight case, also available from OHM. Please refer to the specification table (page 2) for the correct height and depth information for your particular model and ensure sufficient rack space is available.

Precautions

- Retain this manual for future reference.
- Do not stand the patch panel vertically on it's rear.
- Always check that the correctly rated power is supplied to your unit.
- When connecting external units to this unit ensure that correctly wired connectors are used, refer to the user manual for the external unit for this information.
- Avoid direct contact of your unit with water or other liquids. Do not operate while standing in liquid.
- When cleaning the unit wipe with a soft, dry cloth. If more heavy duty cleaning is required disconnect from the mains and use a damp cloth, ensuring that the unit is completely dry before reconnecting to the mains.
- Do not use solvents or chemicals on the exterior of the unit as they may cause the surface to discolour and peel.
- Do not use this unit with frayed or broken power cords.
- If you experience continuous problems, disconnect from the mains and refer to a qualified service engineer.

OPERATING INSTRUCTIONS



FRONT PANEL

1 Backlit Logo (Blue)

Indicates that the Patch Panel is switched on. Powered by maintenance free LED's.

2 Ethernet Connector (RJ45)

Use a standard network cable to connect up to four amplifiers to a single network.
Important: Use either the RJ45 on the front or rear of Patch Panel. Do not connect to both as they are wired together.

3 Outputs 8 way Neutrik© Speakon Connectors

Accepts 8 way Neutrik© Speakon plug connector NL8FC. Wired internally to the rear Binding Posts.

4 USB Sockets

2 x USB sockets to take USB peripherals such as LED Gooseneck Lights 1 x provided.

5 Earth Indicator LED (Green)

Indicates that the Earth has been correctly wired. Will not light if wiring is incorrect.

6 Live Indicator LED (Red)

Indicates that the Live has been correctly wired. Will not light if wiring is incorrect.

7 Neutral Indicator LED (Blue)

Indicates that the Neutral has been correctly wired. Will not light if wiring is incorrect.

8 Mains Input Single Phase C32 Socket.

Accepts female C32 Plug (Provided). Ensure correct wire thickness and configuration is used.

9 & 12 Inputs 1 & 2 on female XLR

Electronically balanced input sockets accept XLR male connectors. Parallel wired to inputs A/B on rear.
Wired as follows:

Pin 1 = Ground,
Pin 2 = Hot,
Pin 3 = Cold.

10 & 11 Input Links 1 & 2 on male XLR

Electronically balanced input link sockets accept XLR female connectors. Parallel wired to inputs links A/B on rear.
Wired as follows:

Pin 1 = Ground,
Pin 2 = Hot,
Pin 3 = Cold.

13 Output 4 way Neutrik© Speakon Connectors

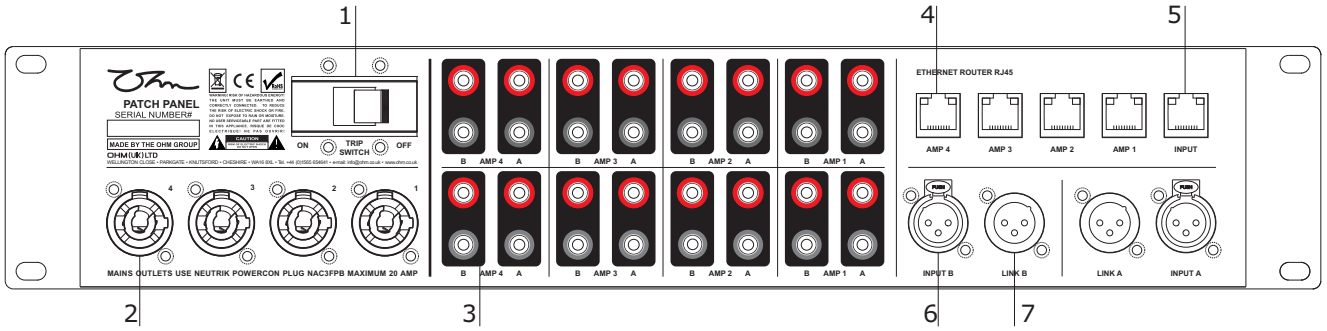
Accepts 4 way Neutrik© Speakon plug connector NL4FC. Wired internally to the rear Binding Posts.

14 Sequencer On/Off Button

This button enables the amps to be turned on in sequence. After an interruption in mains supply the sequencer will automatically restart.

15 Sequencer Indicator LED's (Red)

Lights up as to indicate the amplifiers have powered up.



REAR PANEL

1 Trip Switch

To turn on the unit put the switch to on.
Unit will trip out automatically if a short circuit is detected.

2 Power Connectors

4 x male Neutrik© Powercon connectors to take inline female Neutrik© Powercon Plug type NAC3FCB.

Wired as follows:

L = Live: Brown
B = Neutral: Blue
E = Earth: Yellow /Green

3 Inputs Binding Posts

Accepts Pomona plug, wired internally to the 4 way and 8 way Speakon connectors on the front panel. See page 7 for wiring information.

4 Ethernet Router Connectors Outputs

The Ethernet connector accepts RJ-45 connector for networking. Built into the connector is a yellow and green LED indicator. the green indicator is lit when an amplifier is connected to the network. The yellow shows any network activities.

To connect amplifiers to the network, use a standard Ethernet cable. Up to four amplifiers can be connected to one unit.

7 Input Links Channel A/B on male XLR

Electronically balanced input link sockets accept XLR female connectors. Parallel wired to inputs links ½ on front panel.
Wired as follows:

Pin 1 = Ground,
Pin 2 = Hot,
Pin 3 = Cold.

6 Inputs Channel A/B on female XLR

Electronically balanced input sockets accept XLR male connectors. Parallel wired to inputs1/2 on front panel.
Wired as follows:

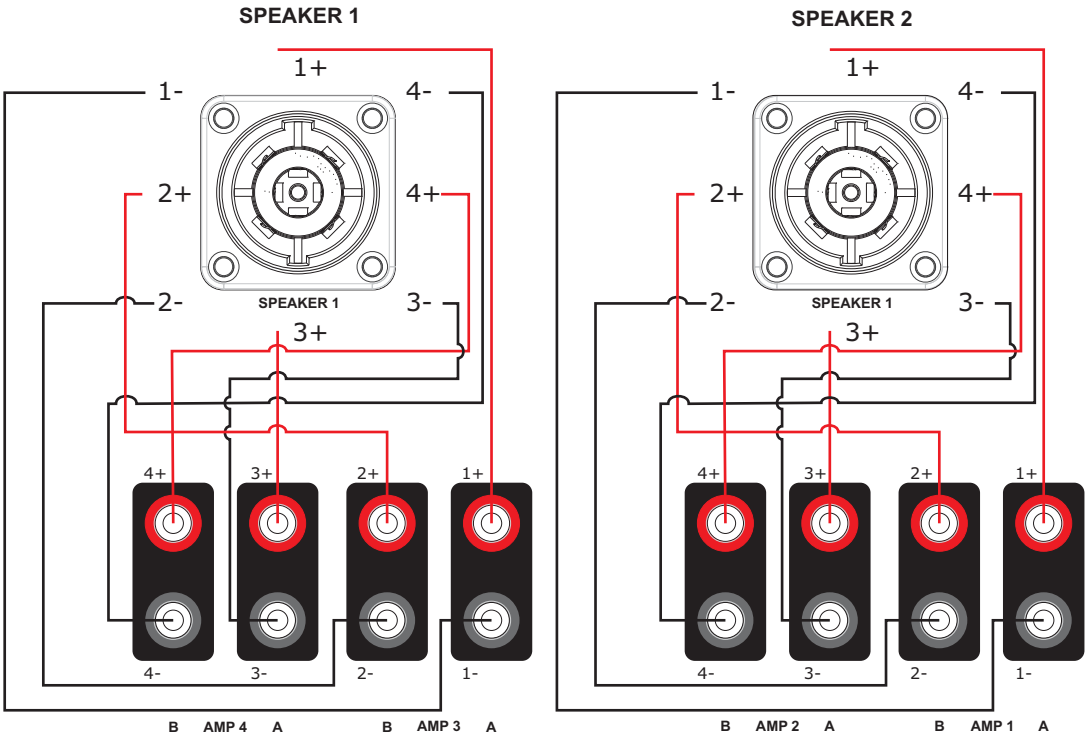
Pin 1 = Ground,
Pin 2 = Hot,
Pin 3 = Cold.

5 Ethernet Connector input

The Ethernet connector accepts RJ-45 connector for networking. Built into the connector is a yellow and green LED indicator. the green indicator is lit when an amplifier is connected to the network. The yellow shows any network activities. Use either the RJ45 on the front or rear of Patch Panel. Do not connect to both as they are wired together.

This connects to external router, from the external router you can connect to either a network or PC. You can use as many switches as you need but make sure there is only one router built into your network. A router with DCHP is needed to assign the IP addresses to the units.

Wiring Instructions



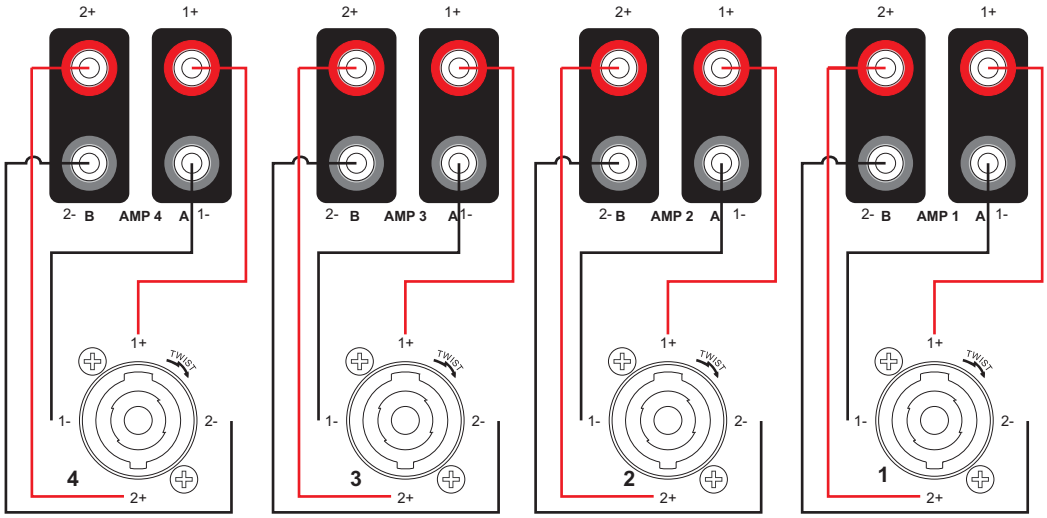
8 way Speakon NL8FC© Connector

Speaker 1

Pin 1+	Connect to amp 4 Channel A red
Pin 1-	Connect to amp 4 Channel A black
Pin 2+	Connect to amp 4 Channel B red
Pin 2-	Connect to amp 4 Channel B black
Pin 3+	Connect to amp 3 Channel A red
Pin 3-	Connect to amp 3 Channel A black
Pin 4+	Connect to amp 3 Channel B red
Pin 4-	Connect to amp 3 Channel B black

Speaker 2

Pin 1+	Connect to amp 2 Channel A red
Pin 1-	Connect to amp 2 Channel A black
Pin 2+	Connect to amp 2 Channel B red
Pin 2-	Connect to amp 2 Channel B black
Pin 3+	Connect to amp 1 Channel A red
Pin 3-	Connect to amp 1 Channel A black
Pin 4+	Connect to amp 1 Channel B red
Pin 4-	Connect to amp 1 Channel B black



4 way Speakon NL4FC©

Pin 1+	Connect to Channel A positive (red)
Pin 1-	Connect to Channel A negative (black)
Pin 2+	Connect to Channel B positive (red)
Pin 2-	Connect to Channel B negative (black)

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